University of Agricultural Sciences, Dharwad
and
Indian Society of Agricultural Information Technology (INSAIT)

National Conference
on
APPLICATION OF GEO-SPATIAL TECHNOLOGIES AND ICTs IN SMART AGRICULTURE (SMARTAGRI-2018)

INAUGURAL FUNCTION

23, January 2018 10.00 AM Auditorium

Inauguration : **Dr. S.K. Singh**
Director, National Bureau of Soil Survey and Land Use Planning, Nagpur

Key Note Address : **Sri Rajiv Ranjan** IFS
Additional Principal Chief Conservator of Forests, Personnel and Recruitment, KFD, Bengaluru

Gracious Presence : **Sri Ishwarachandra Hosamani**
Member, Board of Management, UAS, Dharwad

Dr. R.S. Giraddi
Member, Board of Management, UAS, Dharwad and Dean (Agri), AC, Dharwad

Dr. V.C. Patil
President, INSAIT

President : **Dr. D.P. Biradar**
Vice Chancellor, UAS, Dharwad

You are Cordially Invited

Dr. P.L. Patil
Organizing Secretary

Dr. G.S. Dasog
Secretary, INSAIT

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Dr. Y. R. Aladakatti, Editor, Publication Center, UAS, Dharwad

Dr. P. L. Patil, Nodal Officer Sujala-III Project and Professor UAS, Dharwad- Member Secretary

Address for correspondence

Dr. P. L. Patil, Organising Secretary - SMARTAGRI - 2018, Nodal Officer Sujala-III Project and Professor, Department of Soil Science and Agril. Chemistry, UAS, Dharwad-580005

Email: patilpl@uasd.in, smartagri2018@gmail.com

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About INSAIT

Access to information and its effective use as knowledge is crucial for successful economic development. Instant access to information on the availability of inputs, financial resources, technological innovations and changing market conditions has become critical to the viability of rural economy. To enable the rural India to respond to this information challenge in shaping their wellbeing, it was most prudent to extend the benefit of IT to agriculture and allied industries. In this context, INSAIT (Indian Society of Agricultural Information technology) was established in the year 2000 at Dharwad with the objectives of promoting IT among farmers, scientists, institutions and organizations; to encourage teaching, research and extension activities in all aspects of agricultural IT and to organize training programmes and conventions and publish scientific information through different media for the benefit of the farming community.

INSAIT organized national and international conferences at regular intervals. The first National Conference on Agro-Informatics was organized in 2001 at UAS, Dharwad and the second National Conference on Agro-Informatics and Precision Farming in 2009 at UAS, Raichur and the third National Conference on Agro-Informatics and Precision Agriculture at IIIT, Hyderabad during 2012. The Fifth International Conference of the Asia-Pacific Federation for Information Technology in Agriculture (AFITA) was also organized by INSAIT, in 2006, at IISc., Bangalore. The society is organizing AFITA/WCCA2018 (Asia-Pacific Federation for Information Technology in Agriculture and World Congress on Computers in Agriculture) International Conference on 'Research Frontiers in Precision Agriculture' during October 24-26, 2018 at IIT Bombay.

About UAS, Dharwad

University of Agricultural Sciences, Dharwad (UASD), was established on 1st October 1986 to provide leadership in Teaching, Research and Extension in agriculture and allied sciences, and to serve the farming community. In a span of over 30 years the university has made a mark for itself on the education map of Karnataka. It is an ISO 9001: 2008 certified institution as a mark of quality in teaching, research and extension activities It has been a recipient of the Sardar Patel Outstanding ICAR Institution Award twice (2000 and 2015) by ICAR, New Delhi. The University has also been conferred with Mahindra Samriddhi Krishi Shiksha Samman National Award in 2013, Dewang Mehta Education Leadership Award in 2016 and Golden Globe Award during 2017. UAS, Dharwad was ranked first among the category of specialist universities in Karnataka as evaluated by Karnataka State Higher Education Council during 2017.

About Dharwad and how to reach

University of Agricultural Sciences, Dharwad is located 6 km away from city centre on National Highway-4 between Bengaluru and Pune. Dharwad is about 425 km northwest of Bengaluru. With a rolling topography with an average altitude of 750 m above MSL draped with vegetation, Dharwad enjoys a salubrious climate. Temperature in January range between 15°C during the evenings and 30° C during after noons. Dharwad is recognised as educational and cultural centre of north Karnataka. It is well connected by road, rail and air. The nearest domestic airports are at Hubballi (20 km) and Belagavi (70 km). Hubballi is an important railway junction with connectivity of trains to Mumbai, Pune, Jaipur, New Delhi, Howrah, Bengaluru, Hyderabad, Visakhapatnam, Ahmedabad, Vijayawada, Tirupati, Thiruvanantapuram, Chennai etc.

Goa is the nearest international tourist place (170 km). Other places of tourist attraction nearby are Sirsi (120 km) famous for Marikamba temple and many historic places, Yaana for spectacular karst rock formation in the Sahyadri mountain range of the Western Ghats, Gokarna and Murdeshwar for their temples and beaches, Vijayapura (200 km) famous for Golgumbaz (world's second largest whispering gallery), Aihole and Pattadkallu (180 km) for sculptures of Chalukya's period of national heritage and Badami caves (150 km). The Western Ghats, globally acclaimed hot spot of biodiversity, are within a distance of 140 km from Dharwad.

For further details please visit the website: www.uasd.edu or www.insait.in

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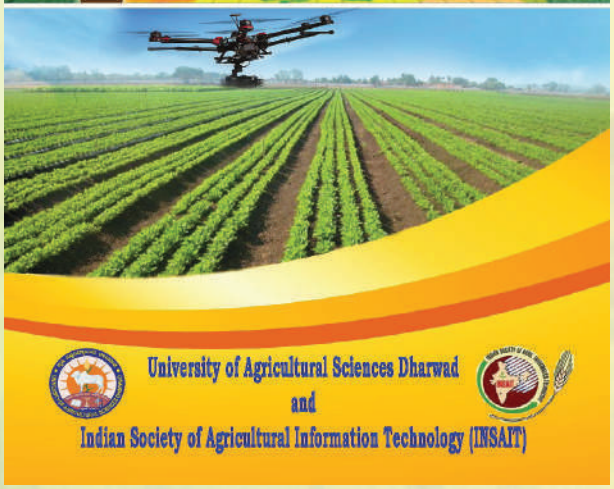
NATIONAL CONFERENCE ON APPLICATION OF GEO-SPATIAL TECHNOLOGIES AND ICTs IN SMART AGRICULTURE (SMARTAGRI-2018)

January 23-24, 2018 at UAS, Dharwad



University of Agricultural Sciences Dharwad

and

Indian Society of Agricultural Information Technology (INSAIT)

NATIONAL CONFERENCE ON APPLICATION OF GEO-SPATIAL TECHNOLOGIES AND ICTs IN SMART AGRICULTURE (SMARTAGRI-2018)

More productive and resilient agriculture requires a paradigm shift in the way water, soil, nutrients and other agricultural resources are managed. Farmers need help to develop smart agricultural practices that have the potential to increase food production. Smart Farming represents the application of modern Information and Communication Technologies (ICT) into agriculture. Following the revolutions in plant breeding and genetics, the agricultural world is taken over by the combined application of ICT solutions such as precision equipment, the Internet of Things (IoT), sensors and actuators, geo-positioning systems, Big Data, Unmanned Aerial Vehicles (UAVs$_r$), robotics, etc. Smart Farming has a real potential to deliver a more productive and sustainable agricultural production, based on a more precise and resource-efficient approach. Hence a National Conference has been organized **at UAS, Dharwad from 23-24, January 2018** to discuss various applications and come out with recommendations on the following thematic areas.

Theme areas

Theme 1: Use of Geo-spatial technologies in smart agriculture

Theme 2: Modeling and DSS in natural resource management

Theme 3: Use of multi-mode platform in smart agriculture (UAVs, Robotics, Apps, Mobile telephony, Crowd-sourcing, etc.)

Theme 4: Internet of Things (IoT) in agriculture

Theme 5: Use of ICTs in agricultural extension

Call for papers: Submission of abstract and lead paper

The Administrators, scientists, entrepreneurs and PG students working in the above themes are invited to submit abstract for oral or poster presentation during the conference. The abstract must not exceed 500 words on any of the theme areas and must include key words, e-mail address and telephone. The abstract should be e-mailed to smartagri2018@gmail.com and patilpl@uasd.in on or before 1st December 2017. Each theme will have a lead talk, oral and poster presentations. The scientists who are interested to present lead talk in any of the theme area can send the full length paper. The official language of the seminar is English. The best posters would be awarded in each of the theme areas.

Citation style

Scientific Journal

Singh, S. P. Rajendra Prasad and Sing, R. K., 2005, Path co-efficient analysis of seed yield in coriander. *Int. J. Agric. Sci.,* 1(1):58-62

Papers presented at symposium/seminar/workshop

Taneja, H. K., Orasad, D., Saxena, D. B. and Tomar, S. S., 2005, Nemato toxicity of some seed extracts against root knot and reniformnemotdes. *Proc. Nation. Symp. Biopest. Indian Agril. Res. Inst., New Delhi,p.1415.*

Book

Yellmanda Reddy, T. and Sankara Reddy, G. H., 2005, Principles of Agronomy. Kalyani Publishers, Ludhiana, India

Report

Anonymous, 2002, Production of food grains. Surv. Indian Agric., The Hindu Year Book, Chennai. p.46-47

Website

www.kar.nic.in / maratavahini

Accommodation

Limted accommodation is available on university campus on payment basis. Therefore, delegates who desire to stay on campus may intimate the organzing secretary. Such requests will be considered on first-come basis from among those that have paid registration fee. Delegates whose organizations permit hotel stays are encouraged to stay in hotels, the list of which is furnished as under:

For Hotels in Dharwad contact the followings:

Hotel Mandhar Regency	:	0836-2444420
Karishma Residency	:	0836-2436441
Mayur Aaditya Resort	:	0836-2461701
Travel Inn	:	0836-2464848
Kamat Yatrinivas	:	0836-2461161
Ankita Residency	:	09886942333
Dwarawata	:	0836-2790999

Dates to remember

National Conference	:	23-24, January 2018
Submission of abstracts & lead papers	:	01-12-2017
Notification of acceptance	:	15-12-2017
Registration with discount	:	31-12-2017

Registration Fees

Category	Till 31st December 2017 (INR)	Spot Registration (INR)
Delegates : INSAIT Members	2000/-	3000/-
Non-Members	2500/-	3000/-
PG Students/Research scholars (Certificate from the institution to be enclosed)	1000/-	1500/-
Accompanying person	1000/-	1500/-
Corporates firms	5000/-	7500/-

Demand draft drawn in favour of **"Comptroller, UAS, Dharwad"** payable at Dharwad may be sent to the **Organizing Secretary.** Registration fee may also be e-transferred to the current account **"Comptroller, UAS, Dharwad" A/c No.: 10025445154, State Bank of India, UAS, Dharwad branch (IFSC: SBIN0003151)**. Proof of transfer should be sent to the **Organizing Secretary.**

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1.	Name (in block letters, surname first)	:	
2.	Gender	:	Male/Female:
3.	Designation	:	
4.	Organization	:	
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	Pin.:		Tel No.:
	Fax:		E-mail :
6.	Accommodation required	:	Yes/No (Guest House/Hotel)
	Registration Fee	:	
	Enclosed Draft No	:	
	Amount :		Date:
7.	Title of the abstract	:	
8.	Abstract enclosed	:	Yes/No
9.	Travel plan	:	
10.	Place and Date	:	

Signature

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Sri. M. Maheshwar Rao, Principal Secretary Department of Agriculture, GoK, Bengaluru

Sri. Rajiv Ranjan, Commissioner, Watershed Development Department, GoK, Bengaluru

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University of Agricultural Sciences, Dharwad
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National Conference
on
APPLICATION OF GEO-SPATIAL TECHNOLOGIES AND ICTs IN SMART AGRICULTURE (SMARTAGRI-2018)

23-24, January 2018

Schedule of Presentations

Sponsors
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SMARTAGRI-2018 Programme
Day 1: 23-01-2018

Registration	9.00-10.00 AM
Inaugural session	10.00-12.00 noon
Tea	12.00-12.30 PM
Technical session 1	12.30-2.00 PM : Use of Geo-spatial technologies in smart agriculture
Lunch break	2.00-3.00 PM
Session I contd.	3.00-5.00 PM

Posters of theme-1 will be on display from 12.00 to 5.00 with authors being present between 4.00 to 5.00 pm for interaction

Tea break;

Tech Session 2	5.00-6.30 PM : Modelling and DSS in natural resource management
Entertainment/ Business meeting	6.30-8.30 PM
Dinner	8.30-9.30 PM

Day 2: 24-01-2018

Technical session 3	09.00-11.00 AM : Use of multi-mode platform (UAVs, Robotics, Apps, Mobile telephony, Crowd-sourcing, etc. and Internet of Things (IoT) in smart agriculture
Tea break	11.00-11.30 AM
Poster viewing	11.00-12.00 Noon : Theme-2, Theme-3, Theme-4
Session 4	12.30-4.00 PM : Use of ICTs in agricultural extension
Lunch break	1.30-2.30 PM
Poster viewing	2.30-4.00 PM : Theme-5
Session 4 (contd,)	2.30-4.00 PM
Tea break	4.00-4.30 PM
Valedictory	4.30-6.00 PM

Schedule of presentations for SMARTAGRI-2018 conference, 23-24, January 2018

23-01-2018

Technical Session –I, Use of Geo-spatial technologies in smart agriculture; 12.30 to 5.00 PM

Chairman: Dr.V.I.Benagi, Director of Research, UAS, Dharwad

Co-Chairman: Dr.A.Natarajan, Principal Scientist (Rtd.) NBSSLUP, RC, Bengaluru

Rapporteurs: Dr.C.P.Chandrashekar and Dr.G.R.Rajakumar

Sl.no.	Title, Authors and affiliation
Lead 1	Application of Geo-spatial Technologies in Management of Forest Ecosystem; **Sri T.V. Manjunath**, Chief Conservator of Forests, Dharwad.
Lead 2	Remote Sensing techniques for Water Productivity (WP) mapping and Variable Rate Irrigation (VRI); **V.C. Patil**, Adjunct Professor, Edith Cowan University Australia
Lead 3	Geospatial Technology in Sustainable and SmartAgriculture; **B. P. Lakshmikantha**, K Ashok Reddy, And D.K Prabhuraj, Karnataka State Remote Sensing Applications Centre, Bengaluru ï 97
Lead 4	Monitoring spatial and temporal climate change in Karnataka and case studies of resilient agriculture; **H. S. Shivaramu**, H. Venkatesh, Padmashri, H. S and Munirathnamma, C. M. **,** GKVK, UAS, Bengaluru
Oral presentations	
1	Geospatial analysis for assessing spatial variability of soil properties in Gopalapura micro watershed under Gundlupet taluk, Chamarajanagar district, Karnataka, India.; **Rajendra Hegde**, K.V. Niranjana, Gopali Bardhan, B. Dhanorkar, S. Srinivas, Sunil Maski, B.P. Bhaskar and S.K. Singh, NBSSLUP, Hebbal, Bangalore-560024, India.
2	Land resource inventory of Hirehalla sub-watershed (4D7A8b) using remote sensing and GIS techniques for watershed development; **P.L. Patil**, G.S. Dasog, H.C. Ramachandraiah, K.S. Pratibha, V.S.Devarnavadagi, S. Veeresh, Appalal Naik, S.T.Hundekar, S.D. Pathak and Rajiv Ranjan, UAS, Dharwad
3	Mapping of major soils in coastal Odisha: a remote sensing and GIS approach- a tool for land use planning; **R. Srinivasan**, S.K. Singh, D.C. Nayak, S. Mukhopadhyay And B. Kalaiselvi NBSSLUP, Bangalore, Karnataka (560 024), India, 9038340392
4	Soil informatics for land capability and suitability assessment for sustainable land use planning in sollapura micro-watershed of southern transition zone of Karnataka; Ravikumar D, **Gurumurthy K.T**., Shivanna B, Anantakumar Patil, Ganapathi, Thippeshappa G.N., Anitha, M.S., Raghavendra S., Sindhu,H.S., Shruthi P., Ravi H.S. And Prakash N.S. University Of Agricultural And Horticultural Sciences,Shivamogga,+91 9900989599
5	Characterization and evaluation of soils of Bareli watershed of Seoni district of Madhya Pradesh for land resources management using geo-spatial technologies Sagar N. Ingle, **M.S.S. Nagaraju**, Nisha Sahu, Pramod Tiwary, Rajeev Srivastava And T.K. Sen, NBSSLUP, Nagpur-440033, Maharashtra
6	Sina reservoir sedimentation assessment by geospatial technology R S Deshmukh and **M M Kulkarni**, ; Dindori Road Nashik 422004, 0253-2534676
7	Assessment of Agricultural Drought using Geospatial Technology for Marathwada Region; **Mohammadsanaulla K**. Huddar, N R Patel and Abhishek Danodia Indian Institute of Remote Sensing-ISRO, Dehradun
8	Mapping of soil moisture and water table fluctuation in chikkamyageri-1 micro-watershed of Koppal district, Karnataka; **C.B.Meti** , P.L.Patil and G.B.Tuppad, University Of Agricultural Sciences, Dharwad-580005, 09449419613
9	Geospatial technologies for assessing seasonal variability in crop coefficient for efficient irrigation scheduling in cashew; **Shamsudheen. Mangalassery** and M.G. Nayak Puttur 574202, Dakshina Kannada, Karnataka
10	Studies on Cropping Pattern Changes in Krishna Delta Region of Andhra Pradesh using Remote Sensing Techniques; V. Siva Jyothi, **P. Prasuna Rani**, K.V. Ramana, P. Ratna Prasad and M. Sree Rekha, Principal Scientist & Head, Geospatial Technology Centre, Lam, Guntur, Andhra Pradesh.

11	Assessment and Mapping of traditional agroforestry systems under rainfed ecosystem in Deccan Plateau; **Doddabasawa**, B.M.Chittapur and M. Mahadeva Murthy, College of Agriculture, Bhimarayanagudi, Yadgir, University of Agricultural Sciences, Raichur 584 102
12	Spatio-temporal assessment of pigeonpea leaf webber Grapholitacritica (Meyr.) (Lepidoptera: Tortricidae) in Yadgir district; **R. S. Patil**, Prabhuraj, A , N. L. Rajesh, B. V. Patil,S. G.Hanchinal, University of Agricultural Sciences, Raichur.
Poster Session	
01	Generation of Land Resource Information of Dudihal sub-watershed using remote sensing and GIS techniques for watershed development; P.L. Patil, G.S. Dasog, **M.V. Kallapur** and H.C. Ramachandraiah, Sujala-3 Project, Department of Soil Science & Agricultural Chemistry, UAS Dharwad
02	Land resources inventory of Pannur north-3 micro watershed for land capability and crop suitability using RS and GIS ; R. Meenkshi Bai, **G. Y. Vidyavathi**, G. S. Yadahalli, N. L. Rajesh And H. V. Rudramurthy, UAS Raichur
03	Application of remote sensing and GIS in natural resource management; **Arnabroy**, Chaitra.G And Manjuprakash, GKVK, Bengaluru
04	Characterization, classification and mapping of rubber growing soils of Kerala, India using GIS and remote sensing; **Chandrakala, M**., Srinivasan R., Anil Kumar K. S., Sanjeev Kumar , Sujatha K., Rajendra Hegde And Singh S. K., Rc, Hebbal, Bangalore-560 024
05	Characterization, classification and mapping of soils of Garakahalli micro watershed of Karnataka, India using GIS and remote sensing; **Chandrakala, M**., Ramesh Kumar, S. C., Niranjana, K. V., Bhaskar B.P.,Rajendra Hegde And Singh S. K., RC, Hebbal, Bangalore-560 024,
06	Sustainable resource management for climate smart integrated farming system model; **Kumara, O.**, Sannathimmappa, H.G., Vijay S Danaraddi. and Rajini, S. R., Davanagere-577219 (Karnataka)
07	Mapping of soil surface features affecting crop suitability in Bilalgodu micro-watershed, Chikkamagaluru district, Karnataka; **Kalaiselvi. B**, Rajendra Hegde, Vasundhara.R, S.Dharumarajan, K.S. Anil Kumar, M. Lalitha, R.Srinivasan And S.K.Singh NBSSLUP, Regional Centre, Bangalore-560 024, India
08	Spatial variability of soil nutrient appraisal using geospatial techniques: a case study; **Lalitha, M**., Rajendra Hegde, K.V. Niranjana, B.A. Dhanorkar, S. Dharumarajan, R. Srinivasan, B. Kalaiselvi, S. Srinivas, Arti Goyal, M. Parvathy And S.K.Singh Hebbal, Bangalore-560024
09	Land degradation assessment of Chikmegeri-3 micro-watershed by NRSA methodology using remote sensing and GIS techniques; **Manjunatha Chari. K**., Manjunatha Hebbara, P. L. Patil. and G.S. Dasog, University Of Agricultural Sciences, Dharwad
10	Impact of slope length and slope steepness factor on soil erosion potential in Chikemegeri-3 micro-watershed Koppal district of northern Karnataka.; **Manjunatha Chari. K**., Manjunatha Hebbara, P. L. Patil. And G.S. Dasog, University Of Agricultural Sciences, Dharwad
11	Soil nutrient status and classification of Pannur north-3 micro-watershed under North-eastern dry zone of Karnataka by remote sensing and GIS techniques.; **Meenkshi Bai R**, Vidyavathi GY, Gs Yadahalli, Rajesh NL And HV Rudramurthy, UAS, Raichur
12	Geographical agriculture information system (GIS): future of agriculture; **Prathima, A. S**., Prakasha, G. And Rohini, N. Meti., University of Agricultural Sciences, Raichur
13	Assessment of spatial variability of soil fertility parameters using geospatial techniques- a case study in Honavalu-1 micro watershed, Koppal district of Karnataka; **R. Srinivasan**, Rajendra Hegde, K.V. Niranjana, S. Dharumarajan, M. Lalitha, B. Kalaiselvi, S. Srinivas, B.A. Dhanorkar And S. K. Singh, Hebbal, Bangaluru-560024, Karnataka
14	Evaluation of land resources of Tenihalli sub- watershed of Vijayapura district, Karnataka.; P.L. Patil, **V.S.Devarnavadagi,** S. Veeresh, Appalal Naik, H.C. Ramachandraiah, K.S. Pratibha, S. Lingaraj, S.S.Shirahatti, S.T.Hundekar And G.S. Dasog,, UAS Dharwad

15	Identification of soil fertility constraints by geographic Information system (GIS) technique in Tenihalli sub-watershed; P.L. Patil, **S.T.Hundekar**, K.S. Pratibha, Aruna Pujari, Appalal Naik, S. Veeresh, V.S.Devarnavadagi, and G.S. Dasog,, UAS Dharwad
16	Geo-statistical analysis of soil nutrient status using GIS technology in Dudihal sub-watershed of Vijayapura district, Karnataka.; P L Patil, **H C Ramachandraiah**, Deepa V Pavadashetti, Chetana Bansode, S Lingaraj and Aruna Pujari, UAS, Dharwad
17	Mapping of spatial distribution of nutrients by GIS in Hirehalla sub watershed under northern dry zone of Karnataka. ; P.L.Patil, **Chetana Bansode**, Deepa Pawadashetti, H.C.Ramachandraiah, V.S.Devaranavadagi, Appalal Naik, S.T.Hundekar, and G.S.Dasog., University Of Agricultural Sciences, Dharwad, Karnataka
18	Land resource assessment using remote sensing and GIS for sustainable agricultureï a case study in Vaderahalli micro-watershed of Chikkamagaluru district, Karnataka. ; **Gurumurthy, K.T**., Ravikumar D., Shivanna B., Anantakumar Patil, Ganapathi, Thippeshappa G.N., Anitha, M.S., Raghavendra S., Sindhu,H.S., Shruthi P., Ravi H.S. And Prakash N.S. University Of Agricultural And Horticultural Sciences,Shivamogga, Karnataka.
19	Assessment of spatial micro-variability of soil properties by using geo-spatial techniques Y. P. Pragathi And **V. B. Kuligod.,** University of Agricultural Sciences, Dharwad- 580005
20	ñAvailable water holding capacity of coconut-growing soils of Karnataka and its impact on crop productivityò; **Avinash, R. K.** and Anil Kumar, K. S. ICAR-National Bureau Of Soil Survey And Land Use Planning, Hebbal, Bangalore 560024.
21	Land use land cover classification and soil carbon sequestration in yellapur taluk of uttara kannada district using remote sensing and GIS technique.; **Koppad, A. G**. Janagowdar. B.S. And Dasar G.V. College Of Forestry Sirsi-581401, Karnataka, India
22	Land resources inventory of Kavalur sub-watershed using remote sensing and GIS; P.L.Patil, **Sameerkhan Dilwaranaik**, S. Vishwanatha, S.Lingaraj, K.S.Prathibha, Deepa Pawadashetti, C.M.Navale, Ashabi. Nadaf, Manjunatha Hebbara and B.I.Bidari. Sujala-III Project, Department Of Soil Science & Agril. Chemistry, UAS Dharwad
23	Relationship between spectral indices and bulk soil salinity of Ghataprabha left bank canal command area of Karnataka.; **Mallikarjuna Lingappa**, Kuligod, V. B. And Patil, P.L. Department Of Soil Science And Agricultural Chemistry, UAS, Dharwad ï 580005
24	Geo-spatial analysis of soil nutrients in Murlapura sub-watershed (codeï 4d4a2m) using GIS technique for enhancing crop productivity; P L Patil, **Jahnavi Katti** , Deepa V Pavadashetti, , S Lingaraj, H C Ramachandraiah, Sameerkhan Dilwarnaik, S. Vishwanath, C M. Navale And A. Nadaf, UAS Dharwad
25	Dynamism of spatial and temporal variability in precision nutrient management in Paddy, Cotton and Pigeonpea in North Karnataka Region.; **U. K. Shanwad**, Veeresh, H. Pandith Rathod, B. G. Mastan Reddy, Rajesh N. L. M. B. Patil And G. M. Hiemath Raichur 584 104, Karnataka State, India
26	Groundwater quality assessment using GIS in Chikkamyageri-1 micro-watershed of Koppal District, Karnataka, India; **C.B.Meti**, G.B.Tuppad, P.L.Patil and A.Y.Shabeer University Of Agricultural Sciences, Dharwad-580005, Karnataka, India
27	Characterization and Classification of Soil Resources of Dambal-II Micro-Watershed in Gadag District of Karnataka.; Suresh Birani , **S. S. Gundlur**, P.L.Patil and V.B.Kuligod Department Of Soil Science And Agricultural Chemistry, University Of Agricultural Sciences, Dharwad - 580 005, Karnataka, India
28	A GIS based soil nutrient assessment in Tommaladahalli Micro watershed of Chikkamagaluru district, Karnataka. ; **Gurumurthy, K.T**., Ganapathi, Ravikumar, D., Thippeshappa, G. N., Basavarajappa Bhogi, Anitha, M.S., Shivanna B., Anantakumar Patil, Raghu, A. N., Sindhu, H.S., Ravi, H. S., Shruthi, P And Prakash N. S.,KWDP-II, SUJALA-III Project, Department Of Soil Science And Agricultural Chemistry, University Of Agricultural And Horticultural Sciences, Shivamogga, Karnataka.
29	Application of Remote Sensing and GIS techniques for Drought Management.; **Adiveppa Mallappa Asangi**, Chandrakant and Vishwajith Department Of Soil Science And Agricultural

	Chemistry, UAS, GKVK, Bangalore.
30	Application of Remote Sensing Technology For Measuring Soil Moisture Content; **Adiveppa Mallappa Asangi**, Chandrakant and Shankar Charate Department Of Soil Science And Agricultural Chemistry, UAS, GKVK, Bangalore
31	Physical And Chemical Properties of Selected Soil Profiles of Kavalur-3 Micro-Watershed and Their Classification; **Anjali, M.C**., Manjunatha Hebbara, Patil, P.L. And Prathibha, K. S. Department Of Soil Science And Agricultural Chemistry, College Of Agriculture, University Of Agricultural Sciences, Dharwadï 580005, Karnataka, India
32	Characterization And Taxonomical Classification Of Soils Of Kavalur-4micro-Watershed Of Koppal District, North Karnataka; **Anjali, M.C.**, Manjunatha Hebbara And Patil, P.L.and Manjunatha,M.V.Department Of Soil Science And Agricultural Chemistry,Professor, Department Of Agricultural Engineering,College Of Agriculture, University of Agricultural Sciences, Dharwadï 580005, Karnataka, India
33	Evaluation of land resources for management of Byanahalli micro-watershed in Channagiri taluk, Davanagere district of Karnataka using geospatial technologies.; **Anil Kumar, S. N**., Rajshekar, L.,Anantha Kumar, M. A., And Sathish, A.,Department Of SS&AC, UAS, GKVK, Bangalore-560065,
34	Soil Morphological Properties and Classification of Kavalur-1 Micro-watershed of Koppal district, Karnataka. ; **K. S. Prathibha**, Manjunatha Hebbara, P. L. Patil And M. C. Anjali, Department Of Soil Science And Agricultural Chemistry, College Of Agriculture, University Of Agricultural Sciences, Dharwadï 580005, Karnataka, India
35	Land capability classification and land evaluation in Hirehalla sub-watershed of Vijayapura district, Karnataka: using remote sensing and GIS techniques. ; P.L.Patil, **S.Veeresh**, K.S.Prathibha, Deepa Pawadashetti, Chetana Bansode, H.C.Ramachandraiah, V.S.Devaranavadagi, Appalal Naik, M. C. Anjali, S.T.Hundekar, and G.S.Dasog, University Of Agricultural Sciences, Dharwad, Karnataka
36	Assessment of Land Capability and Land Suitability of Kavalur sub-watershed of Koppal District.; P.L.Patil, **S.Lingaraj**, Jahnavi Katti, K.S.Prathibha, Sameerkhan Dilwaranaik, S. Vishwanatha, G. B.Tuppad, Deepa Pawadashetti, C.M.Navale, Ashabi. Nadaf, Manjunatha Hebbara and B.I.Bidari., Sujala-III Project, Department of Soil Science & Agril. Chemistry, UAS Dharwad
37	Spatial spectral variability on-farm situation (A Survey).; **Vinayak Hosamani**, B. M. Chittapur, A.S.Halepyati, Satyanarayana Rao, M.B.Patil and N.L.Rajesh. University of Agricultural Sciences, Raichur
38	Assessment of soil fertility status using geographic information system technique in Sigehadlu Micro-Watershed of Southern Transition Zone of Karnataka.; **Rajashekhar L**, Gurumurthy K.T., and Vageesh T. S., Department of Soil Science and Agricultural Chemistry, University of Agricultural and Horticultural Sciences,Shivamogga, Karnataka.
39	Studies on soil characteristics of Kanginhal sub-watershed in northern dry zone of Karnataka. ; **Madhusudhan** and P. L. Patil, Department of Soil Science and Agricultural Chemistry, College of Agriculture, University of Agricultural Sciences, Dharwadï 580 005, Karnataka, India
40	Land Resources Evaluation For Land Use Planning Using Remote Sensing and GIS- A Review **Pradeepa K.L.** and Ravikumar D., Department of soil Science and Agricultural chemistry UAHS, Shimoga.
41	Land Resource Inventory of Dambala-4 micro -watershed in northern dry zone of Karnataka for watershed development planning; P.L. Patil, **Geetanjali,** J. R. Katti, Ramesh Jatti, P. N. Shikrashetti, H. C. Ramachandraiah, C.M. Navale, V.B.Kuligod and S.S.Gundlur.,Sujala III Project, Dept. of Soil Science & Agril. Chemistry, University of Agricultural Sciences, Dharwad
42	Land Resource Inventory of Kavalkeri micro -watershed in northern dry zone of Karnataka for watershed development planning.; P.L. Patil, **S. Viswanath**, Geetanjali, D. Sameerkhan, J. R. Katti, C. M. Navale, B.I.Bidari and Manjunatha Hebbara., Sujala III Project, Dept. of Soil Science & Agril. Chemistry, University of Agricultural Sciences, Dharwad

43	Spatial distribution of C,N,P, S, Fe and Zn in Kanginhal sub-watershed in northern dry zone of Karnataka. ; **Ragini S Patil** and P.L.Patil., Department of Soil Science and Agricultural Chemistry UAS, Dharwad
44	Response of sugarcane to identified micronutrient constraints by GIS technique in major sugarcane growing vertisolof northern transition zone of Karnataka. ; **Nadaf.S.A**, Patil.P.L, Dasog G.S, Bidari, B.I, Manjunatha Hebbar, And Nadagoudar B.T., University Of Agricultural Sciences,Dharwad
45	Geographic Information System (GIS) Tools For Plant Genetic Resource Management **Suma Mogali,** S.S.Gundlur and Lalita Jaggal., University of Agricultural Sciences,Dharwad, Karnataka
46	GIS and Data Preparation for PGR Management; **Suma Mogali,** S.S.Gundlur and Lalita Jaggal., University of Agricultural Sciences,Dharwad, Karnataka
47	GIS-aided soil fertility resource mapping of a microwatershed in Northern Transition Zone of Karnataka. ; **Manoj Kumar Dabi**, P. L. Patil, G. S. Dasog, S. S. Angadi and S. M. Hiremath., UAS, Dharwad
48	Assessment of groundwater quality in Dadamatti-4 micro-watershed of Vijayapur District.; S.S.Shirahatti, **G.B.Tuppad**, P.L.Patil, C.B.Meti, and A.Y.Shabeer., Sujala-III Project, University of Agricultural Sciences, Dharwad-580005, Karnataka, India
49	Groundwater quality assessment using GIS in Hosur 1 and 2 micro-watersheds of Gadag District, Karnataka.; G.B.Tuppad, **A.Y.Shabeer** , C.B.Meti and P.L.Patil., Sujala-III Project, University of Agricultural Sciences, Dharwad-580005, Karnataka, India
50	Effect of Long-Term Irrigation on Properties of Vertisols And Productivity of Maize and Sugarcane in Ghataprabha Command Area. ; **S. S. Gundlur**, Veerabhadrappa and S. M. Kamble., Department of Soil Science and Agricultural Chemistry, University of Agricultural Sciences, Dharwad - 580 005, Karnataka, India
51	Impact of One Time Controlled Application of Spentwash On Soil Fertility Status of Narth Karnataka. ; **Math, K. K**. , Dhanalakshmi, D. And Bidari, B, I., Department of Soil science and Agricultural chemistry, College of Agriculture, University of Agricultural Sciences, Dharwad ï 580 005 Karnataka, India.
52	Transformation Of Major Nutrient In Soil As Influenced By Different Nutrient Recommendation Approaches To Soybean Crop.; **Sankalpa, C. P**, K. K. Math, P. L. Patil, K. S. Jagadeesh and H. B. Babalad., Department of Soil Science and Agricultural Chemistry, UAS, Dharwad,
53	Available micro-nutrients status mapping by GIS technique in Asoti-4 micro-watershed of Gadag district (Karnataka), **D. Manoharachari**, V. B. Kuligod and P. L. Patil, University Of Agricultural Sciences, Dharwad - 580 005, Karnataka, India
54	A study on application of ICT in socio-economic studies in Eklaspur IV micro-watershed in Koppal district in Karnataka, India.; **Sujith Sandur**, Kulkarni G.N., Patil P.L., Dasog. G.S., Laxmi N.T. and Praveenkumar C. H., Sujala-III Project, UAS, Dharwad
55	**Dynamics of land use pattern in Karnataka;** Mundinamani, S.M., Kulkarni, G.N., Rangegowda, R and Sangamesh Angadi, Department of Agricultural Economics, University of Agricultural Sciences, Dharwad.
23-01-2018 **Technical session-2. Modeling and DSS in natural resource management; 5.00 to 6.30 PM** Chairman: Dr.B.S. Janagoudar, Director of Education, UAS, Dharwad Co-Chairman: P.Krishna Reddy, Professor, IIIT, Hyderabad Rapporteurs: Dr.R.H.Patil, Dr.V.B.Kuligod	
Lead 1	Towards Building Question Support System for Farmers., **P.Krishna Reddy**,; IIIT Hyderabad, Telangana State, India, 9849329324
Lead 2	Spatial Decision Support Systems for Smart Farming using Geo-Spatial Technologies.; **P.D. Sreekanth,** K.V. Kumar, S.K. Soamand, Ch. Srinivasa Rao., ICAR-National Academy of Agricultural Research Management (NAARM), Hyderabad, Telangana State, India, mob: 7702907874

Lead 3	Water Use Efficiency in Irrigated Agriculture: Role of Crop Water Budgeting and Sensors.; D. Upadhyaya, **M. Sekhar**, M. Sudhakar Rao, L. Ruiz., Department Of Civil Engineering, Indian Institute Of Science, Bangalore, 560012, India
Oral presentation	
1	Application software using digital library for watershed planning and development of sujala watersheds in Karnataka, India.; **S. Srinivas**, Rajendra Hegde, D.H. Venkatesh, K.V. Archana, B. P. Bhaskar, R.S. Reddy, Karunya Lakshmi, Devendra Prasad, K.V. Seema And S.K. Singh. NBSSLUP, RC, Bangalore
2	Web solution for watershed management using land resource inventory **Karunya Lakshmi**, K.V. Seema, S. Srinivas, Devendra Prasad, Rajendra Hegde , A. Rajab Nisha, Sudip Kumar, D.H. Venkatesh, K.V. Archana, B. Kalaiselvi, and S.K. Singh NBSSLUP, Nagpur ï 440 033
3	A Framework to Compute Similar Weather Conditions to Build Efficient Weather-based Agricultural Decision Support Systems.; A. Mamatha and **P.Krishna Reddy**, IIIT Hyderabad, Telangana State, India. Cell: 9849329324
4	Assessment of Soil Moisture Adequacy for rainfed crops under semi-arid agro-climatic Conditions: A case study. ; **U. Satishkumar**, N.L Rajesh, Dr. G.V Srinivasareddy and Dr. Mallikarjuna Dandu University of Agricultural Sciences Raichur
5	Simulating yield of some field crops on different soil series in GLBC command area using Agricultural and Environmental GIS for Windows (AEGIS/WIN); B. L. Harikrishna, **G.S. Dasog**, P. L. Patil and V.B.Kuligod, UAS, Dharwad.
6	Simulating the best sowing window for maize hybrids under rainfed environment of Northern Transition Zone of Karnataka. ; Pradeep M.G. and **R.H. Patil**, Department of Environmental Sciences, University of Agricultural Sciences, Dharwad ï 580 005, Karnataka, India.
7	Crop manager for stress tolerant rice -a decision tool for site-specific nutrient management at farm level in ñdigital Indiaò. ; **Kumara BH**, Sudhanshu Singh, Sheetal Sharma, Ashok Kumar, Ranjan Laik, Anshuman Kohli, And Ajeet Singh., Bagalkot, UAS, Dharwad hombegowda60@gmail.com
Poster Session	
1	Prediction models for apion ampulum (faust.) in green gram. ; **P. V. Matti**, Shekharappa And R. A. Balikai., UAS, Dharwad-580005
2	Crop sensing and precision nutrient management through remote sensing. ; **Prathima, A. S**., Rohini, N. Meti. And Prakasha, G., University Of Agricultural Sciences, Raichur
3	ñAbayesian network is a tool that can be used to build a DSSò. ; **Jagadeesh B R.,** Navsari, Gujarat ï 396 450
4	Simulation Modelling and Its Application to Nitrogen Dynamics in Soils. ; **Adiveppa Mallappa Asangi**., Department Of Soil Science And Agricultural Chemistry UAS, GKVK, Bangalore
5	Real Time Nitrogen Management (RTNM) In Major Cereals. ; **Adiveppa Mallappa Asangi**, Lokesh Patil And Vishwajith Department Of Soil Science And Agricultural Chemistry, UAS, GKVK, Bangalore.
6	Decision Support Systems Software for Cotton Fibre Grading and Selection.; **Vishwajith**, Shilpa V. Chogatapur, Reshma Sutar And Adiveppa Mallappa Asangi Shankar Charate Dept. Of Agronomy, UAS, GKVK, Bengaluru,
7	Real Time Nitrogen Management: A Sustainable approach for crop production.; **Shankar Charate**, Vishwajith, AdiveppaMallappa Asangi and Karale Gangadhar., Research Institute of Organic Farming, UAS,GKVK, Bengaluru
8	Effect of growing season on the potential yielding ability of maize hybrids in Northern Transition Zone of Karnataka: DSSAT-CERES Maize model assessment. ; Pradeep M.G. and **R.H. Patil**., Department of Environmental Sciences, University of Agricultural Sciences, Dharwad ï 580 005, Karnataka, India.

9	SALUS: A New Generation Crop Simulation Model. ; **M. D. Iliger**, Pararmeshwarareddy R., Shilpa V. Chogatapur and Reshma Sutar" Department of Agronomy, University of Agricultural Sciences, Dharwad
10	Production Forecast in Sugarcane through satellite based vegetation indices modeling and Spectral Characterization.; **Chandrashekara, C. P**., Chittapur, B. M., Biradar, D. P., Hiremath, S. M. Patil, V. C., Dasog, G. S. and Patil, B. C., Department of Agronomy, University of Agricultural Sciences, Dharwad, Karnataka, India
11	Forecasting of Short-Term Drought For Mewar Region of Rajasthan Using Artificial Intelligence.; **K.A. Basamma**, R.C. Purohit and A. R. Senthil Kumar. Department of Soil and Water Engineering, CTAE, Udaipur, India
12	Pedological modelling. ; **Stasha Balkinsoon** and P.L.Patil. Department of Soil Science and Agril. Chemistry, AC, Dharwad.

24-01-2018 **Technical session-3. Use of multi-mode platform (UAVs, Robotics, Apps, Mobile telephony, Crowd-sourcing, etc.) and Internet of things (IoT) in smart agriculture; 9.00 to 11.00 AM** Chairman: Dr.Adinarayana, Professor and Head, Centre of Studies in Resource Engineering, IIT Bombay. Co-Chairman: Srinivalsulu Reddy, Skycrafts Pvt. Ltd. Rapporteurs: Dr.R.V.Hegde and Dr.B.N.Aravindakumar	
Lead 1	Geo-ICDTS for SMART Agriculture, **Dr.Adinarayana**, Professor and Head, Centre of Studies in Resource Engineering, IIT Bombay
Lead 2	Early detection of diseases and pest infestation in chilli through deployment of IoT and image processing techniques. ; **V. B. Nargund**, P. R. Patil, R. V. Hegde,, R. R. Patil., K. G. Karibasappa, S. G. Totad[2], B. L. Desai, S. Gautam., P. Suprita., R. Sahana., V. Rohit. and P. Shailaja. University of Agricultural Sciences, Dharwad-580 005
Oral presentations	
1	Multi-pronged adoption of ICT for Agrometeorological services in north Karnataka.; **H. Venkatesh**., Principal Scientist (Agrometeorology) Regional Agricultural Research Station, Vijayapur (Karnataka) Phone: +91 94803 84264
2	Mera mobile ï mera marketing. ; **Pragati Gokhale**., Ministry Of MSME,Govt. of India. Ph; 9822719618
3	UAVs in crop protection.; Vikas K. T., **Babu K. S**., S. Mallikarjunappa, Piyush Mishra., Tata Sons Group Technology & Innovation Office, Rallis India Limited, CSIR NAL.
4	Smart agriculture using internet of things (IoT): resource to root, the Ramthal story. ; Abhijit.B.Joshi, **Shweta.Goswami** and Kuldeep.Runwal. Jalgaon, Maharastra
5	Climate smart agriculture. ; **Amith G**., University Of Agricultural Sciences, Dharwad ï 05, Ph; 7899937703
6	Development of web based software application for socio-economic survey in Sujala-II -A successful technological usage in Melekote-1 micro watershed of Karnataka. ; **Y. M. Gopala,** V. Govinda Gowda, G.S. Praveen And V.R. Ramakrishna Parama., KWDP-II, Sujala-III, Department Of SS&AC, COA, UAS, GKVK, Bangalore-560605
7	Use of Drones for plant protection. ; **Srinivalsulu Reddy**, Skycrafts Pvt. Ltd. Hubballi
Poster session	
01	Use of multi-mode platform in smart agriculture - mobile apps. ; **K.B. Yadahalli** and S. V. Halakatti., Hanumanamatti- 581 115
02	Applications of robotics in smart agriculture. ; **Prakasha, G**., Rohini, N. Meti. And Prathima, A. S., GKVK, Bengaluru-560 065.
03	M- agriculture- an encyclopaedia in a pocket. ; **Sahana, S**.,Gayathri, G.N, UAHS, Shimoga
04	Crowd sourcing: uses and approaches in smart-agriculture. ; **Prakasha, G**.,Prathima, A. S. And Rohini, N. Meti., GKVK, Bengaluru-560 065

05	Farming with robots: boon for farmers. ; **Ashokkumar. B**., Mahalakshmi, S. M.,Akkamahadevinaik And Vinoda S. Naik., Bengaluru-560065, Karnataka, India
06	Smart Tool For Scheduling of Irrigation Through Infrared Gun or Thermometer. ; **Parameshwarareddy R**, M. D. Iliger, S. S. Angadi and B. S. Yenagi., Department of Agronomy, UAS, Dharwad
07	Wireless sensors are the way to improve irrigation efficiency. ; **Parameshwarareddy R**, M. D. Iliger, Shilpa V. Chogatapur and Reshma Sutar., Department of Agronomy, University of Agricultural Sciences, Dharwad
08	Future Trend and Scope of Agricultural Robotics. ; **Mahesh. M**, Mahesh. P., Indira Gandhi Krishi Viswavidyalaya, COA Raipur, C.G.
09	E-marketing: emerging market channel for sale of agricultural produce. ; **Gayathri.G.N** Sahana.S., UAHS, Shivamogga
10	Smart farm net and IoT based technologies in agriculture. ; **Jagadeesh B R**, Shivakumar S M., Navsari, Gujarat ï 396 450
11	Internet usage behaviour of agricultural graduates and their socioeconomic characteristics. ; **Manjuprakash**, Chaitra, G And Arnab Roy., University Of Agricultural Sciences, Bangalore.
12	Internet of things in weather forecasting.; **Amith G**. University Of Agricultural Sciences, Dharwad ï 05
13	Smart Agriculture; **Priyanka Kupneshi**., SDM College Of Engineering And Technology,Dhavalagiri,Dharwad-580002
14	Smart irrigation to the sugarcane fields.; **Mr. Abhaykumar Badchikar**., SDM College Of Engineering And Technology Dhavalgiri, Dharwad-580002
15	Digital Technology Game Changer In Agriculture. ; **Shilpa V**. **Chogatapur**, Vishwajith and Reshma Sutar., Dept. of Agronomy, UAS, Dharwad
16	Digital Technologies Transforming Indian Agriculture.; **Shilpa V. Chogatapur**, Vishwajith and Muttanna Iliger D., Dept. of Agronomy, UAS, Dharwad
17	Application of Wireless Sensor Technologies In Precision Irrigation.; **Shilpa V. Chogatapur**, Vishwajith, Parameshwarareddy, R., Dept. of Agronomy, UAS, Dharwad
18	ñOnline agricultural marketing- Its growth and challengesò.; Mahantesh.Nayak, **Pavitra. A. Menasinakai,** Siddaraju Kiran. Department of Agricultural Economics, University of Agricultural Sciences, Dharwad.
19	Smart Irrigation to The Sugarcane Fields.; **Sujay R**, Saundarya D K., Navida B.R Abhay B., IT Department SDMCET, Dharwad.
20	Increasing agriculture productivity using IoT.; **Ashish Kumar Bajpai**, Sunita Pandey, Hari Mohan Singh., PG College Ghazipur

Technical session-4 Use of ICTs in agricultural extension 12.30-4.00 PM Chairman: Dr.H.Basappa, Director of Extension, UAS, Dharwad Co-Chairman: Dr.G.S. Srinivasa Reddy, Director, KSNDMC, Bengaluru Rapporteurs: Dr.K.A.Jahagirdar and Dr.S.V.Halakatti	
Lead 1	Powering Disruption in the Extension Advisory Services. ; **Shaik N.Meera**., Principal Scientist., ICAR- Indian Institute of Rice Research., Hyderabad 500030 India
Lead 2	Information and Communication Technology in Agricultural Extension: Status and Prospects; **Chandre Gowda M.J**., Principal Scientist (Ag. Extension), ICAR-Agricultural Technology Application research Institute (ATARI), HA Farm Post, Hebbal, Bengaluru ï 560024,
Lead 3	Extension Plant Pathology: Strengthening Resources to Continue Serving the Public Interest. ; **V.I.Benagi**, Vidya Hulikatti and S.A.Ashtaputre Department of Plant Pathology, University of Agricultural Sciences, Dharwad ï 580005, Karnataka, India

Oral presentation	
1	The Application of ICT tools in Hydro-Meteorological Disasters Monitoring and Mitigation**. G S Srinivasa Reddy** and C N Prabhu., KSNDMC, Major Sandeep Unnikrishnan Road,Near Attur Layout, Yalahanka, Bangaluru 560 064 Karnataka, Phone: 080 67355000
2	Application of GIS in livelihood analysis and challenges.; **S.S.Dolli** , Malati Karki and Uttam., University Of Agricultural Sciences, Dharwad. 098451 42796
3	A Study on the Role of Whatsapp in Plantation crops as Value Chain. ; **Sunil D. Tamgale** and Geeta S. Tamgale.,Scientific Agro Technologies (SAT) ï Division of International Agro Consultancy ï Bangalore / Chikmagalur. Cell: +91 9449836061 Cell: +91 9449036061
4	E-resource accessibility and application by the extension personnel of university of agricultural sciences Dharwad Karnataka. ; **Bheemappa A.** and I. G. Krishantha Janaka University Of Agricultural Sciences Dharwad, Karnataka., cell no. 9449121372,
5	Assessing benefits and challenges in application of ICT in dairy sector in kolkata metropolitan. ; **Arnab Roy**, Tanmoy Bhowmik and Chaitra.G., GKVK, Bengaluru
6	Usefulness and preference of information in agri., portals by farming community.; **Chaitra, G,** Manjupraksh And Arnab Roy., GKVK, Bengaluru ï 560065
Poster session	
01	ICT based initiatives for farm extension through Krishi Vigyan Kendra. ; **Ashish Kumar Bajpai**, Sunita Pandey[2], Dinesh Singh, PG College Ghazipur
02	Information kiosks - effective means for technology transfer to rural areas.; **Gayathri.G.N**, Sahana.S., UAHS, Shivamogga
03	Use of ICT tools by the transplanted, red gram farmers of haveri district.; **M.V. Nagaraja**, S.B. Manjunath, S.V. Halakatti, AC, Hanumanmatti-581115,
04	Agricultural knowledge dissemination through Kisan mobile advisory services in Gadag district.; **S.H. Adapur**, L.G. Hiregoudar And Lalita Asuti Hulkoti, Gadag District
05	Perception of TV as diversified ict agricultural information source by the farmers; **Sunil V. Halakatti** and Dr. K. B. Yadhahalli,. AC, Hanumanamatti ï 581115
06	Role of mobile phones in agricultural information delivery for rural development; **Sunil V. Halakatti** and Dr. K. B. Yadhahalli., AC, Hanumanamatti ï 581115
07	Social media ï a catalyst for agriculture information dissemination; **Vasanthi, C**., Sahana, S. And Gayathri, G.N.,UAS Dharwad
08	Role of information and communication technologies (ICTS) in agricultural extension.; **Deepa, M.P.M** and sangeetha, M., UAS, Bengaluru
09	ICT as a tool for transfer of agricultural information to farming community; **Navinkumar**, UAS Raichur
10	Information and communication technology in agriculture and rural development: initiatives and opportunities; **Deepa B. Hiremath** And Deepak Hiremath., Navsari Agricultural University And Ahmedabad University- Gujarat
11	Agriculture in hand ï use of smartphones in agriculture; **Sangeetha, M**. and Deepa, M.P.M
12	Smart Farming: The Future Agriculture; **Vishwajith**, Shilpa V. Chogatapur, Reshma Sutar and Adiveppa Mallappa Asangi Shankar Charate., Dept. Of Agronomy, UAS, GKVK, Bengaluru,
13	An Analysis Of Kisan Mobile Advisory Service (Kmas) of Krishi Vignyan Kendras KVKs; **Kanavi. S. R** And Jahagirdar. K. A., UAS, Dharwad
14	mKisan Portal ï Mobile Based Services for Farmers of Haveri District of Northern Karnataka. ; **Priya, P**., Rekha, K.N., Geeta S. Tamagale, Sarojani J. Karakannanavar, K.P. Gundannanavar, Harish, D.K., Venkanna Balaganur, Krishna Naik, L., Kallesh, D.T., Guruprasad, G.S. And Jagadeesh, B.R., Krishi Vigyan Kendra, Hanumanamtti, Ranebennur (Tq), Haveri (Dt.) ï 581 115
15	Information Communication Technology Enabled Extension Services **Rajeshwari N**, S S Dolli, P L Patil and Gurudutt M Hegde., Dept of NRM, College of Foresrty, Sirsi, Uttara Kannada

16	Socio-Economic Status and Willingness to Participate in SUJALA III Watershed Project: A Sampling Analysis of Mundre-2 Micro watershed of Chikkamagaluru District in Karnataka State; **Yashodhara, B**., Vasudev, K.L, Ramesha, Y.S., And Gurumurthy, K.T. KWDP-II, Sujala-Iii, Department of SS&AC, College of Agriculture, UAHS, Shivamogga.
17	Supply Chain Management In Agriculture Sector; **Almaszabeen Badekhan**
	Plenary Session 4.30 to 6.00 PM Chairman: Dr.D.P.Biradar, VC, UAS, Dharwad Co Chairman: Dr.V.C.Patil, President INSAIT Rapporteurs: Dr.S.Rajakumar and Dr.S.S.Gundlur